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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/471,659	12/24/1999	LLOYD D. CLARK JR.	59.0021	7775	
26751 75	590 01/10/2006		EXAMINER		
BRIGITTE EC			ODOM, C	URTIS B	
SCHLUMBERGER WELLS SERVICES 200 GILLINGHAM LANE, MD-9			ART UNIT	PAPER NUMBER	
SUGAR LAND, TX 77478			2634		
			DATE MAILED: 01/10/200	DATE MAILED: 01/10/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

## Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
09/471,659	CLARK ET AL.		
Examiner	Art Unit	_	
Curtis B. Odom	2634		

		Curus B. Cuom	2004	
•	The MAILING DATE of this communication appe	ars on the cover sheet with the	correspondence add	ress
THE REPL	LY FILED <u>12 December 2005</u> FAILS TO PLACE THI	S APPLICATION IN CONDITION I	FOR ALLOWANCE.	
this a place (3) a	reply was filed after a final rejection, but prior to or o application, applicant must timely file one of the follows the application in condition for allowance; (2) a Not Request for Continued Examination (RCE) in composing time periods:	owing replies: (1) an amendment, a otice of Appeal (with appeal fee) in	affidavit, or other evide compliance with 37 (	ence, which CFR 41.31; or
	The period for reply expires 3 months from the mailing date of			
· —	The period for reply expires on: (1) the mailing date of this Advevent, however, will the statutory period for reply expire later the Examiner Note: If box 1 is checked, check either box (a) or (b)	an SIX MONTHS from the mailing date of . ONLY CHECK BOX (b) WHEN THE F	of the final rejection.	
	MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f of time may be obtained under 37 CFR 1.136(a). The date on		a) and the appropriate exte	ension fee have
been filed is CFR 1.17(a above, if che earned pate	the date for purposes of determining the period of extension a ) is calculated from: (1) the expiration date of the shortened stacked. Any reply received by the Office later than three month nt term adjustment. See 37 CFR 1.704(b).	and the corresponding amount of the fee. atutory period for reply originally set in the	The appropriate extension final Office action; or (2)	on fee under 37 as set forth in (b)
	<u>DF APPEAL</u> Notice of Appeal was filed on A brief in com	pliance with 37 CEP 41 37 must b	e filed within two mon	ths of the date
of fil Sinc	ing the Notice of Appeal (37 CFR 41.37(a)), or any ele a Notice of Appeal has been filed, any reply must	extension thereof (37 CFR 41.37(e)	)), to avoid dismissal (	of the appeal.
AMENDM				
3. 📘 The	e proposed amendment(s) filed after a final rejection	, but prior to the date of filing a brie	et, will <u>not</u> be entered	because
	They raise new issues that would require further co		JIE below),	
(b)L	They raise the issue of new matter (see NOTE belon They are not deemed to place the application in be	ow); ottor form for appeal by materially r	educing or simplifying	the issues for
, , _	appeal; and/or			g the issues for
(d)∟	They present additional claims without canceling a		ejected ciaims.	
	NOTE: (See 37 CFR 1.116 and 41.33(a))		\	L (DTOL 224)
	amendments are not in compliance with 37 CFR 1.		ompliant Amendmen	(PTOL-324).
5. 🔲 Apr	plicant's reply has overcome the following rejection(s	5):	. Atom the file of the same	
the r	wly proposed or amended claim(s) would be a non-allowable claim(s).			
how	purposes of appeal, the proposed amendment(s): a) the new or amended claims would be rejected is prostatus of the claim(s) is (or will be) as follows:	) ⊠ will not be entered, or b) ☐ \ pvided below or appended.	will be entered and an	explanation of
	m(s) allowed:			
	m(s) objected to: m(s) rejected: <u>2-9, 12-17, 20-26, and 28-36 as in Of</u>	fice Action 9/20/2005.		
	m(s) withdrawn from consideration:			
	IT OR OTHER EVIDENCE			
beca and	affidavit or other evidence filed after a final action, be ause applicant failed to provide a showing of good a was not earlier presented. See 37 CFR 1.116(e).	nd sufficient reasons why the affida	avit or other evidence	is necessary
ente show	affidavit or other evidence filed after the date of filinered because the affidavit or other evidence failed to wing a good and sufficient reasons why it is necessa	overcome <u>all</u> rejections under app ory and was not earlier presented.	eal and/or appellant fa See 37 CFR 41.33(d)	ails to provide a (1).
	e affidavit or other evidence is entered. An explanati T FOR <u>RECONSIDERATION/OTHER</u>	on of the status of the claims after	entry is below or atta	ched.
11. 🛛 Th	e request for reconsideration has been considered b	ut does NOT place the application	in condition for allow	ance because:
	ee attachment. ote the attached Information Disclosure Statement(s)	. (PTO/SB/08 or PTO-1449) Papel	r No(s).	
_	her:			

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## Response to Arguments

The declarations under 37 CFR 1.132 filed 12/12/2005 are insufficient to overcome the 1. rejection of claims 2-9, 12-17, 20-26 and 28-36 based upon Matsumoto, Bae, Isaksson, Van Kerchove, Tzannes, Rasmussen, Gardner, and Baid as set forth in the last Office action because the claims as recited still do not constitute patentability. It is still the understanding of the examiner that DMT modulation does not recognize its environment or propagation medium. Of course, in order to implement DMT modulation, one could not use the same cables as that of telephony. However, simply because the cables used in well-logging are longer than the cables used in telephony, does not provide a reason as to why one of ordinary skill in the art would not render implementing DMT modulation into a well-logging (cable) system as obvious. DMT modulation can be implemented into wireless technology which can span an area much greater that any man-made cable. DMT modulation is performed before the signal is transmitted through a propagation medium. Thus, how is it that the propagation medium (whether it be a cable, air, or water) affects the performance of DMT modulation? The propagation medium/environment may affect the transmitted signal, but it does not affect the process of producing the transmitted signal. The different cables used in well-logging to transmit the signal from one device to the next do not affect the DMT modulation performed in the devices. There may be more power needed to transmit the DMT signal through the cable but this still does not affect process of DMT modulation before the signal is transmitted. The arguments provided in the declarations are drawn to the signal after it is transmitted (length of cables, temperatures, etc.). However, DMT modulation is performed before the signal is transmitted, thus, the length

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of cables and the temperatures of the propagation medium do not affect the process of producing a DMT signal. The propagation medium may affect the types of cables used, but it does not affect the process of DMT. Thus, it is the still the understanding of the examiner that since the environment/propagation medium does not affect the actual DMT modulation process (as shown by DMT being implemented in not only cable but also wireless systems) that it would have been obvious to one skilled in the art the time the invention was made to implement DMT modulation in a well-logging system which uses cables as a propagation medium.

## Conclusion

Any inquiry concerning this communication or earlier communications from the 2. examiner should be directed to Curtis B. Odom whose telephone number is 571-272-3046. The examiner can normally be reached on Monday- Friday, 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Curtis Odom December 21, 2005

> CHIEH M. FAN SUPERVISORY PATENT EXAMINER